UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/531,829	04/18/2005	Jean-Ho Song	21C0191US	2222	
23413 CANTOR COL	7590 01/29/201 LBURN, LLP	EXAMINER			
20 Church Stree		NGUYEN, DUNG T			
22nd Floor Hartford, CT 00	6103	ART UNIT	PAPER NUMBER		
			2871		
			NOTIFICATION DATE	DELIVERY MODE	
			01/29/2010	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

usptopatentmail@cantorcolburn.com

Office Action Summary		Applica	tion No.	Applicant(s)	Applicant(s)		
		10/531,	829	SONG ET AL.			
		Examin	er	Art Unit			
		Dung No	juyen	2871			
Period fo	The MAILING DATE of this communi or Reply	cation appears on t	he cover sheet wi	th the correspondence a	ddress		
A SHO WHIC - Exter after - If NO - Failur Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE M. Insions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum stare to reply within the set or extended period for reply eply received by the Office later than three months a part of the provision of the provisi	AILING DATE OF 7 of 37 CFR 1.136(a). In no of unication. Itutory period will apply and will, by statute, cause the a	THIS COMMUNIC event, however, may a re will expire SIX (6) MON' oplication to become AB	CATION. poply be timely filed THS from the mailing date of this ANDONED (35 U.S.C. § 133).			
Status							
2a)⊠	Responsive to communication(s) file This action is FINAL . Since this application is in condition closed in accordance with the practic	b)☐ This action is for allowance excer	non-final. ot for formal matte	· · · · ·	e merits is		
Dispositi	on of Claims						
5)□ 6)⊠ 7)□ 8)□ Applicati 9)□	Claim(s) 1-29 is/are pending in the a 4a) Of the above claim(s) 15-22 is/ar Claim(s) is/are allowed. Claim(s) 1-14 and 23-29 is/are rejected to. Claim(s) is/are objected to. Claim(s) are subject to restrice. on Papers The specification is objected to by the the drawing(s) filed on is/are:	e withdrawn from conted. tion and/or election e Examiner.	requirement.	by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notic 3) Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <u>9/22/09</u> .	TO-948)	Paper No(s	ummary (PTO-413))/Mail Date Iformal Patent Application 			

DETAILED ACTION

Applicant's amendment dated 10/09/2009 has been received and entered. Claims 1-14, 23-29 are pending in the application. Claims 15-22 stand withdrawn from consideration as non-elected claims

Applicant's arguments with respect to claims 1, 10 and 22 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-14 and 23-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's submitted prior art, Kim et al., WO 01/45283, in view of Kikkawa et al., US 6,879,359, and Kurihara et al., US 7,274,424.

Regarding the above claims, Kim et al. disclose a liquid crystal display (LCD) device (figures 4-6) comprising:

a first substrate (11) having a plurality of unit cells (figure 6), each cell including a sensor thin film transistor (TFT) (12), a storage device (14/15/16) and a first switch TFT (13), a second insulating layer (see figure 5). It is noted that a data reading part and a first gate driving part (fingerprint reading section 100 and control section 400) inherently formed over the first substrate to function/control the sensor TFT and the switch TFT;

Application/Control Number: 10/531,829 Page 3

Art Unit: 2871

an LCD panel (3) inherently having a second substrate and a liquid crystal layer attaching to the first substrate (figure 4);

- . a sensor output signal line (output n/n+1);
- . a light shielding layer (13-sh)

Kim et al. do not explicitly disclose the LCD panel having first transparent electrode, a second substrate having a second transparent electrode, a color filter and a second switch TFT, wherein the first transparent electrode is in contact with a lower surface of the first substrate and the liquid crystal layer contacts the first transparent electrode. Kikkawa et al. do disclose an LCD (figure 3) having first transparent electrode (34), a second substrate (21) having a second transparent electrode (31), a color filter (30) and a second switch TFT (22/26/27), a first insulating layer (32) between the second transparent electrode (31) and the color filter (30). In addition, a data driver part and a second gate driver part (control section 400) would be formed over the second substrate to control the switch TFT. Therefore, it would have been obvious to one skilled in the art at the time of the invention was made to combine the Kikkawa et al. LCD panel into the Kim et al. fingerprint terminal in order to obtain an LCD device having both a data display function and a fingerprint capture function. In addition, Kurihara et al. do disclose that a first transparent electrode (134) can be formed on a lower substrate of a first substrate (13)(see figure 2); therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the Kim et al. substrate (11) having an electrode at a lower surface of the first substrate as shown by Kurihara et al., in order to obtain a portable device and a weight reduction (see Abstract).

Application/Control Number: 10/531,829 Page 4

Art Unit: 2871

Conclusion

3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung Nguyen whose telephone number is 571-272-2297. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/531,829 Page 5

Art Unit: 2871

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DN 01/19/2010

/Dung T. Nguyen/ Primary Examiner Art Unit 2871